Incessant Hike in Transportation Costs and Transportation Fare: Investigating The Role of Subsidy Removal in Nigeria

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Abstract

Fuel is a major force among many others persuading transport costs and transport fare in Nigeria. It plays crucial role in the production of goods and services in all facets of the economy, that is why some countries round world find it necessary to subsidize and ensured citizens have access to fuel which is of national concern. Fuel in Nigeria is an inelastic product both at demand and supply sides, which means that it is very difficult for consumers to find alternatives to the use of it in their daily lives. Transport costs are monetary measure of what the transport provider must pay to produce transportation services. Transport rates are the prices or fares of transport services paid by their users to the transport service provider, meanwhile fuel subsidy also interferes in those factors affecting transport costs and transport fares. Among other formula of attaining a diversified economy is the diversification of transport system and sources of energy. For a third world country like Nigeria, fuel subsidy is perceived as a major instrument to enhance citizens' welfare most especially the middleand low-income earning populace, concurrently, the expenditure of fuel subsidy must be properly monitored to curb against corruption as shown in the previous administrations. Strict policies can be set aside as deterrence (such as judicial murder, life imprisonment and other costly punishments) for any corrupt political office holder. Before considering subsidy removal, the recommendations in the research must have been fully achieved.

Keywords: Fuel subsidy, Fuel subsidy removal, Transport costs, Transport fares and Production costs.

Introduction

Among other major determinant factors that influences transportation costs and transportation fares in Nigeria is fuel. According to Innocent, Ogbu and Job (2015), fuel plays a crucial role in the production, distribution and consumption of goods and services in all facets of the economy, that is why countries find it necessary to subsidize and assured citizenry of having access to fuel which is national interest. Onvishi, Eme and Emeh (2012) stated that government subsidize fuel to reduces cases of market failure-mainly poverty especially in developing countries where subsidies are given to allow the poor participate in economic activities. Also, fuel subsidy protects delicate economies from mar in the international market.

According to Ezeh (2012), fuel in Nigeria is an inelastic product both at demand and supply sides, which means that it is very difficult for consumers to find alternatives to the use of it in their daily lives. Alternatives such as electric trains, solar heaters and cookers are non-existent in Nigeria and hydropower and dams are not dependable sources of power in Nigeria. Fuel subsidy also interfere in all other factors affecting transport costs and transport fares.

According to the Academics Dictionary of Economics (2006), subsidy can be defined as monetary discount given by the government to an industry aimed at lowering the price of goods and services of the concerned sector of the economy and to raise its competitive power. This may be given as a counter balancing measure to the imposition of the custom duty (in the nature of protection duty) by an importing country government. One commonest goal of subsidy is to keep its prices affordable even to the common on street below the cost of production. According to World Bank (1997), fuel subsidy is any policy by the authority that is aimed at reducing the price of energy consumed by citizenry vis-avis to what the price would have been in the absence of such policy. Fuel subsidy is a governmental programme created to reduce how much Nigerians have to pay for petroleum motor spirit (PMS), automotive Gas Oil (Diesel), and to protect the citizens from crude oil volatility on the international market.

The reality of subsidy is that as the pump charges of fuel upsurges, invariably the cost of everything in Nigeria upsurges. Therefore, the essence of subsidizing the cost of pump charges of fuel is to make the cost of living, production and services bearable to every Nigerian and as well maintain decent standard of living. The hidden danger in fuel resource is that in one hand, it is one of the pivotal sources of revenue generation for the federal government and on the other hand, it is through the subsidization of the pump charges that the standard of living and wellbeing of Nigerians are better off. In this situation, any slight increase in the pump price of fuel without alleviating measure put in properly there is high degree of inflicting economic hardship on Nigerians and commonly generates resistance and protest from the organized labour, civil society coalition and the masses in general. The reason being that the fuel subsidy is the principal way ordinary Nigerians benefit from the country's oil wealth (Campell, 2011).

Fuel subsidy oftentimes leads to increase demand for fuel due to over use and waste arising from reduced price of the product, creating unnecessary shortfalls of supply. The strength of correlation between fuel and production is weak due to the facts that small proportion of fuel is used in production of most goods in Nigeria but the strength of correlation between fuel and transportation is very strong because it is used for distribution process which add to the final cost of goods produced. The importance of transport in any region cannot be underestimted. Transportation refers to the process of carrying or moving of goods and people from one geographical destination to another (Anyanwu et al., 1997). According to Good and Jebbin (2015) transportation is a system for carrying commuters, basic materials and goods from one place to the other both domestically and internationally, often through power driven machines. It is commonly said to refer to movement of people and goods from one place to another (Okeafor, 1998). Transportation service is the port of tangible distribution activity which is concerned with the actual movement of goods to their various consumers (Good and Jebbin, 2015). Without transportation, production cannot be attained, at the same time, production is said to be achieved if goods get to the final consumers. Transport systems face requirements to increase their capacity and to reduce the costs of movements. transportation beneficiaries (e.g. individuals, enterprises, institutions, governments, etc.) have to bargain or bid for the transfer of goods, people, information and capital because supplies, distribution systems, tariffs, salaries, locations, marketing techniques as well as fuel costs are changing constantly (Jean, Claude and Brian, 2006). Moreover, Jean, Claude and Brian (2006) stated that the choice of a transportation mode to route people and shipping within origins and destinations becomes vital and relies on a number of factors such as the nature of the goods, the available infrastructures. origins and destinations, technology, and particularly their respective distances jointly define transportation costs. Transport costs are monetary magnitude of what the transport provider must pay to produce transportation services. Transportation cost covers cost on infrastructures which are fixed in outlook and operating costs which are inform of variable (not fixed). Transport cost depends on a divergent of state of affairs related to geography, infrastructure, administrative barriers, energy, and on how commuters and shipping are carried. Also, transport fares are the charges of transport services paid by their users to the transport service provider. Transport rates are also informing of monetary measure, hence, before such price or fare are being paid, transport users will negotiate the monetary cost with the transport service provider based on distance to be covered when moving a commuter or a unit of shipping between a specific origin and destination. They may not necessarily express the real transport costs.

1.1 Statement of problem

Subsidies are prone to suffer corruption and the pervasive risk of fraud, especially when allocating subsidy payments. For instance, the delay in the repayment of subsidies to importers of fuel has created incentives for the importers to induce payment. There are several reports of high-profit and "round tripping" of imported fuel and fuel produced by local refineries. The impact of removing fuel subsidy in the short-run is increase in transportation cost and

transportation fare which directly indirectly affect the cost of physical distribution, material handling, marketing, logistics and overall production. In the middlerun, the citizenry baffles to adjust for the market competition to surface and in the longrun, market competition is expected to fall the price of fuel. But it is quite obvious that fuel subsidy was totally removed in the current administration without provision of efficient infrastructures and other forms of energy which can all serve as close substitutes to fuel and make life comfortable. The government thought that sudden removal of fuel subsidy is the way out for a better Nigeria but the negative effect of fuel subsidy removal is highly severe on the citizens. Although, subsidy removal is a policy on its own that is analytically based, economically sound, politically acceptable but it is not socially credible and the sustainability will pose life threat on the citizens because of the unprepared atmosphere and the peculiarity of political office holders in Nigeria. It should be noted that under the umbrella of government that knows what to do and how to do it, the political office holders will not have their ways of manoeuvring the policy, with time, it is

expected to be socially credible, environmentally suitable and sustainable, but some measures should be put in place to assist the poor and the citizens in the rural areas. The aim of this paper is to examine the incessant hike in transportation costs and transportation fare: investigating the role of subsidy removal in Nigeria.

1.2 Research Questions

The objectives of the study were guided by the following research questions which will be answered in the body of the work:

- 1. What are the effects of fuel subsidy and its removal on transportation cost and transport fares in Nigeria?
- 2. What are the repercussions of fuel subsidy and its removal on production cost of goods and services in Nigeria?
- 3. What are the effects of subsidy removal on mobility of goods and services in Nigeria?
- 4. What is the percentage fuel price increase from year 1973 to year 2024?

1.3 Research Objectives

- 1. Identify the effects of fuel subsidy and its removal on transportation cost and transport fares in Nigeria?
- 2. Assess the repercussions of fuel subsidy and its removal on production cost of goods and services in Nigeria?
- 3. What are the effects of subsidy removal on mobility of goods and services?
- 4. What is the percentage fuel price increase from year 1973 to year 2024?

2.0 Literature Review

2.1 Fuel subsidy

According to the Academics Dictionary of Economics (2006), subsidy can be defined as the cash incentive given by the government to an industry with a view to lower the price of the product of the concerned industry and to raise its competitive power. This may be given as a counter balancing measure to the imposition of the custom duty (In the nature of protection duty) by an importing country government. One important objective of subsidy is to keep its prices below the cost of production. Moreover, subsidy can also be defined as any measure that keeps prices consumers pay for a goods or products below market levels for consumers or for producers above market. Subsidies take different forms. Some subsidies have a direct impact on price. These include grants, tax reductions and exemptions or price controls. Others affect prices or costs indirectly, such as regulations that skew the market in favour of a particular fuel, government sponsoring technology, or research and development. Thus, there are two major classes of subsidies

- Production subsidies: These form is associated with developed countries and;
- Consumer subsidies: This is found mainly in developing countries like Nigeria.

A subsidy is a reverse tax. It is a deliberate attempt by government to support a chosen economic agent, a consumer and a producer and it can be applied in any market that involves the buying and selling of products and or services. Furthermore, according to OECD, subsidy is basically government action that decreases the consumption price of the consumer and or increases the selling price of the producer. Subsidies enjoy widespread use in several countries and several commodities such as petroleum products, food or farm inputs liker fertilizer and machinery (UNEP, 2002). Fuel subsidy is a government programme created to reduce how much Nigerians have to pay for petroleum motor spirit (PMS), automotive Gas Oil (Diesel), and to protect the citizens from crude oil volatility on the international market.

Fuel subsidy can also be referred to the effort by the government to pay for the difference between the price of fuel in the pump and the actual cost of the product. So by paying the difference, the government enables fuel to be sold at a lower price so that it will help alleviate the burden on its people especially the lower income group. Fuel subsidy in Nigeria was before the coming of the Buhari's administration, it is a policy of federal government meant to assist the people of Nigeria to cushion the effects of their economic hardship. Conceptually, fuel subsidy seeks to enhance financial capacity but also to accept the implied financial losses by it in the sprint of its national responsibility to ensure the well-being of the populace (Emeh, 2012).

2.2 Historical overview of fuel subsidy removal in Nigeria

According to the Centre for Public Policy Alternatives (2011), the executive arm of the Federal Government has taken the view that subsidy removal is an important element in the larger scheme to accelerate Nigeria economic development. The history of fuel subsidy removal in Nigeria is rather a long one particularly with the negative effects it has on the polity. Specifically, the story of subsidy removal dates back to 1978 when the then military government of Gen. Olusegun Obasanjo reviewed upward the pump price of fuel which was at 8.4 kobo to 15.37 kobo. The concern was for government to generate enough money to run the administration particularly when it was preparing for the 1979 democratic elections and also to carter for the social needs of Nigerians (Ering and Akpan, 2012).

Moreover, Gen. Olusegun Obasanjo second coming as a civilian president did not help matters as he unleashed a reign of terror on Nigerians. In his eight years' reign, the nation witnessed several rounds of fuel price increases. The first started on 1st June, 2000, where the petrol price per litre was raised to

N30.00 but only to be reduced to N25 one week after due to massive protests by organized labour, civil society organizations and the ordinary Nigerians. Five days later, on 13th June, 2000, the pump price was further adjusted to №22.00 per litre (George et al., 2014). On 1st January, 2002, Obasanjo regime increased the price from ₹22.00 to ₹26.00 and to №40.00on 23rd June, 2003 just one year after. In June, 2007, also the same regime raised the price of fuel per litre to \$\infty70\$, and later to over ₹100 per liter. In a statement delivered by Dr. Kachikwu, on May, 2016, it is on record that when the late President Umaru Musa Yar'Adua assumed office in May 2007, the Nigeria Labour Congress (NLC) resisted the increase and forced him to revert to №65 per litre. In January, 2012, the government of former President Goodluck Jonathan attempted to remove the acclaimed subsidy but this was stoutly resisted and the commodity whih was billed to sell for ₹97 per litre was later pegged to N=87 per litre (Vanguard News, 25th May, 2016).

The statement further stated that during President Buhari's administration in 2015 to present, Nigerians have been asked to buy the product at a peak price of ₹145 per litre. Government said it decision in this regard is informed by the fact that despite the decline in the price of crude oil in the international market, marketers are finding it increasingly difficult importing refined petroleum products due to scarcity of foreign exchange (Vanguard News, 25th May, 2016).

Table 2.1: In-depth qualitative analysis of different petrol adjustments and different pump prices by the different administrations from 1973 to 2023 in Nigeria.

S/N	DATE	ADMINISTRATION		PRICE	PERCENTA GE INCREASE
1	1973	Gen. Gowon		6k to 8.45k	40.8
2	1976	Gen. Murtala		8.45 to 9k	6.5
3	1st Oct, 1978	Gen. Obasanjo (as Milita	ary)	9k to 15.3k	70
4	20th April, 1982	President Shagari		15.3k to 20k	30.7
5	31st March, 1986	Gen. Babangida		20k to 39.4k	97
6	10th April, 1988	Gen. Babangida		39.5k to 42k	6.3
7	1st January, 1989	Gen. Babangida		42k to 60k	43
8	Dec. 1989	Gen. Babaginda		60k	0
9	6th March, 1991	Gen. Babaginda		60k to 70k	16.7
10	8th Nov, 1993	Chief Shonekan		70k to ₹5.00k	614.3
11	22nd Nov, 1993	Gen. Sani Abacha		№5.00k to №3.25k	-35
12	2nd Oct, 1994	Gen. Sani Abacha		№3.25k to №15.00k	361.6
13	4th Oct, 1994	Gen. Sani Abacha		№15.00k to №11.00k	-26.7
14	20th Dec, 1998	Gen. Abdusalam		№11.00k to №25.00k	127.3
15	6th Jan 1999	Gen. Abdusalam		№25.00k to №20.00k	-20
16	1st June, 2000	President Obasanjo Civilian Ruler)	(as	N20.00k to N30.00k	50
17	1st Jan,2000	Olusegun Obasanjo Civilian Ruler)	(as	N30.00k to N22.00k	-26.7
18	1st Jan, 2002	President Obasanjo Civilian Ruler)	(as	N22.00k to N26.00k	18.2
19	June to Oct, 2003	President Obasanjo Civilian Ruler)	(as	№26.00k to №42.00k	61.5
20	29th May, 2004	President Obasanjo Civilian Ruler)	(as	N42.00k to N50.00k	19.1
21	25th August, 2004	President Obasanjo Civilian Ruler)	(as	№50.00k to №65.00k	30
22	27th May, 2007	President Obasanjo Civilian Ruler)	(as	N65.00k to N100.00k	53.9
23	June 2007	President Yardua		№100.00k to №65.00k	-35
24	1st Jan, 2012	President Jonathan		№65.00k to №97.00k	49.2
25	Jan, 2015	President Jonathan		№97.00k to №87.00k	-10.3
26	May, 2016	President Buhari		№ 87.00k to № 145.00k	66.7
	Jan., 2021	President Buhari		№165 to №212	28.5
27	My, 2023	President Tinibu		№ 220 to №617	180.5
28	-				

Sources: Authors' compilation in Ering and Akpan (2012), Egiuche (2012), George et al.

(2014) and Vanguard (2016). And Nairaland (2023).

2.3 Transportation

According to Oxford English Dictionary, transport was coined from two Latin words 'trans' which mean 'across' and 'portare' which mean 'carry'. Transportation is the carriage of people and goods from one geographical location to a particular destination (Microsoft Encarta, 2009). According to Merriam Webster Dictionary, transportation is an act, process, or instance of transporting or being transported. The same dictionary also defines it as a means of conveyance or travel from one place to another or a public conveyance of passengers or goods especially as a commercial enterprise. Longman Dictionary of Contemporary English (2003) defines transportation as a process or business of taking goods from one place to another or a system for carrying passengers or goods from one place to another.

Transportation refers to the process of conveying or moving of goods and people from place to place (Anyanwu et al 1997). According to Good and Jebbin (2015) transportation is a system for carrying passengers, raw materials and goods from one place to another both internally internationally, often through power driven machines. It is commonly said to refer to movement of people and goods from one place to another (Okeafor, 1998). Transportation service is the port of physical distribution activity which is concerned with the actual movement of goods to their various consumers (Good and Jebbin, 2015). This service enhances the fulfilment of production because production is said to be achieved if and only if goods get to the final consumers.

Transportation system has several elements or essentials without which it cannot function, the elements are;

 Infrastructure, which includes the transportation network (i.e. roads, railways, airways, canals, pipelines, etc.);

- 2. Vehicles, such as automobiles, trains, airplanes etc. This generally moves on the networks;
- 3. Operations, which deal with the control of the system such as traffic, signal and ramp meters, rail-road switches, air traffic control, etc., as well as policies, such as how to finance the system, for instance, use of tolls or gasoline taxes in the case of highway transport;
- 4. Nodes or terminals (such as airports, railway stations, bus stations and seaports), they are points where there is an access to any specialized form of way (infrastructure) (Adeniran & Yusuf, 2016).

Transportation systems are consisting of a complex set of relationships between the demand, the locations they service and the networks that facilitates movements. They are mainly reliant on the commercial environment from which are derived operational attributes transportation costs, such as capacity, efficiency, reliability and speed. Such conditions are closely related to development of transportation networks, both capacity and in spatial Transportation systems are also evolving within a complex set of relationships between transport supply, mainly the operational capacity of the network, and transport demand, the mobility requirements of a territory (Jean, Claude and Brian, 2006).

2.4 Transport costs and transport fares

Transport costs are a monetary measure of what the transport provider must pay to produce transportation services. They come as fixed (infrastructure) and variable (operating) costs, depending on a variety of conditions related to geography, infrastructure, administrative barriers, energy, and on how passengers and freight are carried. Three major components, related to transactions, shipments and the friction of distance impact on transport costs (Jean, Claude and Brian, 2006).

Transport fares are the price of transportation services paid by their users. They are the negotiated monetary cost of moving a passenger or a unit of freight between a specific origin and destination. Transport fares are often visible to the consumers since transport providers must provide information to secure transactions. They may not necessarily express the real transport costs. The difference between transport costs and transport fares results in either a loss or a deficit from the transport service provider (Jean, Claude and Brian, 2006).

Transport systems face requirements to increase their capacity and to reduce the costs of movements. All users (e.g. individuals, enterprises, institutions, governments, etc.) have to negotiate or bid for the transfer of goods, people, information and capital because supplies, distribution systems, tariffs, salaries, locations, marketing techniques as well as fuel costs are changing constantly. There are also costs involved in gathering information, negotiating, and enforcing contracts and transactions, which are often referred as the cost of doing business. Trade involves transaction costs that all agents attempt to reduce since transaction costs account for a growing share of the resources consumed by the economy (Jean, Claude and Brian, 2006). Frequently, enterprises and individuals must take decisions about how to route passengers or freight through the transport system. This choice has been exhaustibly expanded in the context of the production of lighter and high value consumer goods, such as electronics, and less voluminous production techniques. It is not uncommon for transport costs to account for 20 percent of the total cost of a product. Thus, the choice of a transportation mode to route people and freight within origins and destinations becomes important and depends on a number of factors such as the nature of the goods, the available infrastructures, origins and destinations, technology, and particularly their respective distances. Jointly, they define transportation costs (Jean, Claude and Brian, 2006).

2.5 Impacts of fuel subsidy on the factors affecting transport costs and transport fares It is quite obvious that fuel subsidy impacts the major factors affecting transport costs and transport fares. Since transport costs are mostly

transport fares. Since transport costs are mostly fixed amount, the factors are mostly associated with transport rates meanwhile, the factors affecting transport costs and transport rates and how fuel subsidy impact them are listed below:

- 1. Geography: Its impacts mainly involve distance and accessibility. Distance is commonly the most basic condition affecting transport costs. The more difficult it is to trade space for a cost, the more important is the friction of distance. The friction of distance can be expressed in terms of length, time, economic costs or the amount of energy used. It varies greatly according to the type of transportation mode involved and the efficiency of specific transport routes. Landlocked countries tend to have higher transport costs, often twice as much, as they do not have direct access to maritime transportation (Jean, Claude and Brian, 2006). Fuel subsidy will tend to reduce the overall transport costs and transport rates incurred on distance and accessibility, also, the removal of fuel subsidy will add more or increase the overall transport cost and transport rates incurred on distance and accessibility;
- 2. **Type of product:** Many products require packaging, special handling, are bulky or perishable. Coal is obviously a commodity that is easier to transport than fresh flowers as it requires rudimentary storage facilities and can be transhipped using rudimentary equipment. Insurance costs are also to be considered and are commonly a function of the value to

- weight ratio and the risk associated with the movement. As such, different economic sectors incur different transport costs as they each have their own transport intensity. passengers, comfort and amenities must be provided, especially if long distance travel is involved (Jean, Claude and Brian, 2006). Fuel subsidy will tend to reduce the overall transport costs and transport rates incurred on product packaging, special handling, bulky or perishable products also, the removal of fuel subsidy will add more or increase the overall transport cost and transport rates incurred on product packaging, special handling, bulky or perishable products;
- 3. **Economies** of scale: Another condition affecting transport costs is related to economies of scale or the possibilities to apply them as the larger the quantities transported, the lower the unit cost. Bulk commodities such as energy (coal, oil), minerals and grains are highly suitable to obtain lower unit transport costs if they are transported in large quantities. A similar trend also applies to container shipping with larger containerships involving lower unit costs (Jean, Claude and Brian, 2006). If goods are transported in large quantity, more fuel will be required. Therefore, the advantage incurred on transporting large volumes of goods is a disadvantage to the amount of fuel to be consumed. If fuel is being subsidized, the cost of fuel to be consumed when transporting large volumes of goods will be minimal but in the case of subsidy removal, the cost of fuel to be consumed will be at a very high rate and transport service provider must be critical analytical in taking decisions of cost;
- 4. **Energy:** Transport activities are large consumers of energy, especially oil. About 60 percent of all the global oil consumption is attributed to transport activities. Transport typically accounts for about 25 percent of all the energy consumption of an economy. The costs of several energy intensive transport modes, such as air transport, particularly susceptible fluctuations in energy prices (Jean, Claude and Brian, 2006). According to Ezeh (2012), fuel in Nigeria is an inelastic product both at demand and supply sides, which means that it is very difficult for consumers to find alternatives to the use of it in their daily lives. Alternatives such as electric trains, solar heaters and cookers are non-existent in Nigeria and hydropower and dams are not dependable sources of power in Nigeria. In a nation with single means of fuelling transport vehicle, fuel subsidy is mostly preferable and will results into reduced transport costs and rates but in the case of fuel subsidy removal, transport costs and rates will increase. It is quite better that before subsidy removal, other sources of energy or fuel or other sources of energy powered vehicle such as hydrogen gas, electric, solar and others should be made readily available, for it will normalize the high effects on transport cost and overall production cost because of the available close substitutes which will be influenced as a result competition;
- 5. **Trade imbalances:** Imbalances between imports and exports have impacts on transport costs. This is especially the case for container transportation since trade imbalances imply the repositioning of empty containers that have to be taken into

account in the total transport costs. Consequently, if a trade balance is strongly negative (more imports than exports), transport costs for imports tend to be higher than for exports. The same condition applies at the national and local levels where freight flows are often unidirectional, implying empty movements (Jean, Claude and Brian, 2006). In Nigeria, transport import is more than export and this implies that number of cargo discharged is more than the number of cargo loaded, therefore there is no balance between filled containers and empty containers. If fuel is subsidized, the import costs will be minimized but if fuel subsidy is removed, import cost will be very high and this will significantly increase the cost of the products and consumables. If Nigeria will rely on importation, then there is need for fuel subsidy. The present shifting in the diversification of the economy should also results into shifting from fuel subsidy to fuel subsidy removal. This will also improve the development of Nigeria economy;

6. Infrastructures: The efficiency and capacity of transport modes and terminals has a direct impact on transport costs. Poor infrastructures imply higher transport costs, delays and negative economic consequences. More developed transport systems tend to have lower transport costs since they are more reliable and can handle more movements (Jean, Claude and Brian, 2006). Efficient transport infrastructures result into low fuel consumption and the better if fuel subsidy removed. Also, poor transport infrastructures result into high fuel consumption and fuel subsidy is needed. Hence, fuel subsidy removal should be better considered if the government must have provided a smooth transport network for easy accessibility.

Mobility can be predisposed to be influenced by transport costs, meanwhile transport costs tend to be

influenced by fuel subsidy and fuel subsidy removal. Analytical facts revealed that the use of passenger vehicle highlights the relationship between annual vehicle mileage and fuel costs. In the case of fuel subsidy, it implies lower fuel costs and hence, the higher the mileage. Also, in the case of fuel subsidy removal, it implies higher fuel costs and hence, the lower the mileage. This is in accordance with the view of two Jean, Claude and Brian, (2006) "the more affordable mobility is, the more frequent the movements and the more likely they will take place over longer distances".

Everybody appreciates the fact that when motorists pay more for fuel, the transport fare increases. This has been the case even when the increase is only marginal. In the particular case where the cost of fuel is expected to double, the increase in transport fare will be astronomical. This will in turn affect everything else – school fees, house rent, just name it (Stephen, 2015).

3.0 Discussion of findings

The perspective of the Researcher about subsidy is in-line with the perspective of various researchers;

According to Afolabi (1999), it has been shown in the past, that any significant increase in the fuel price often cause economic recession, such as witnessed in year 1973, year 1979 and year 2023. One way in which the government had made fuel sufficiently available and affordable to the low income earner is through subsidy. The introduction of subsidy indirectly promotes economic growth and development as a result of the affordability of the price of goods which provides an enabling point for the middle class citizen to contribute significantly to the economy. He also stated that lesson derived from China shows how subsidy had contributed

significantly to economic growth and development. The success could be attributed to the affordability of energy and hence an increase in its demand.

Furthermore, in the perspective of Nwosu (2009), subsidy removal though will play significant role in nation building it is not the absolute resort to improve the economy. While it looks significantly important, there are other measures that could be adopted even without subsidy removal which would improve the economy significantly. And the presence of subsidy will play a pivotal role to the accomplishment of this measure as is being witnessed in china. Moreover, in the perspective of Onwioduokitanda and Adenuga (2012), removing fuel subsidy at the same time devaluing Naira would result into increasing cost of production for the few companies that are still in existence. This would result into more job losses (as the companies would be forced to down-size in order to survive) in addition to the unavoidable increase in the cost of the companies' products is the increase in the cost of providing services.

Additionally, Ering and Akpan (2012) stated that increasing fuel costs as a result of fuel subsidy removal force people to rethink on their life style and mode of transportation as a strategy for surviving the hard times. For instance, people now ride on horse powered taxis, some choose cow-powered land cruisers and even do motorcycle powered tourist wagon, all in an attempt to avoid the use of petrol and its cost. Increases in transportation costs always have triple effects on other social issues. The prices of food stuff also went up. The result of fuel price increase results into transportation increase costs. increase production cost and marketers had to factor in the increment in order to make marginal gain.

In addition to the above discussions of findings from various researchers, the researchers will also add and recommend the following as contribution to knowledge:

1. Fuel subsidy will reduce the overall transport costs and fares incurred on

- transport distance and accessibility, also, the removal of fuel subsidy will increase the overall transport cost and fares incurred on transport distance and accessibility;
- 2. Fuel subsidy will reduce the overall transport costs and fares incurred on product packaging, special handling, bulky or perishable products also, the removal of fuel subsidy will increase the overall transport cost and fares incurred on product packaging, special handling, bulky or perishable products;
- 3. If goods are transported in large quantity, more fuel will be required; therefore, the advantage incurred on transporting large volumes of goods is a disadvantage to the amount of fuel to be consumed. If fuel is being subsidized, the cost of fuel to be consumed when transporting large volumes of goods will be minimized but in the case of subsidy removal, the cost of fuel to be consumed will be at a very high rate and transport service provider must be critical and analytical in taking decisions of cost;
- 4. In a nation that has no close substitutes to vehicle fuel or energy, fuel subsidy is mostly preferable and will results into reduced transport costs and fares but in the case of fuel subsidy removal, transport costs and fares will increase. It is quite better that before subsidy removal, other sources of energy or fuel to power a vehicle such as hydrogen gas, electric, solar and others should be made readily available, for it will normalize the high effects on transport cost and overall production cost;
- 5. If fuel is subsidized, the import costs will be minimized but if fuel subsidy is removed, import cost will be very high and this will significantly increase the cost of the products and

consumables. If Nigeria will rely on importation, there is need for fuel subsidy. The present shifting in the diversification of the economy should also results into shifting from fuel subsidy to fuel subsidy removal. This will also improve the development of Nigeria economy;

- 6. Efficient transport infrastructures result into low fuel consumption and the better if fuel subsidy removed. Also, poor transport infrastructures result into high fuel consumption and fuel subsidy is needed. Hence, fuel subsidy removal should be better considered if the government must have provided a smooth transport network for easy accessibility; and
- 7. In the case of fuel subsidy, it implies lower fuel costs and hence, the higher the mileage. Also, in the case of fuel subsidy removal, it implies higher fuel costs and hence, the lower the mileage

4.0 Conclusion

Among other indices of attaining a diversified economy is the diversification of transport infrastructures and energy sources. Hence, it is expedient for a country or nation to embark on developing diversified modes of transport and fuel (energy) sources before such country will boast to have achieved a diversified economy and a sustainable development.

Finally, the effect of fuel subsidy removal on transport costs, transport fares and production costs is quite complex, cost of procurement will increase, households will be meticulous about spending to compensate extra spending on fuel, unnecessary trips will be cancelled and reduction in motorization. Fuel subsidy removal will also reduce indiscriminate fuel consumption and results to reduction in carbon emission.

For a developing country like Nigeria, fuel subsidy is considered as major tool to enhance citizens' welfare most especially the middle and low income earners, meanwhile, the disbursement of fuel subsidy must be properly monitored to guide against corruption as shown in the past administrations. Strict policies can be set aside as punishment (such as death sentence, life imprisonment and other costly punishments) for any corrupt political office holder. Before considering subsidy removal, the above seven recommendations must have been fully achieved.

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